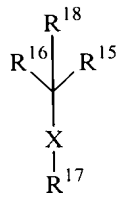
IN THE CLAIMS

The status of each claim in the present application is listed below.

Claims 1-52: (Canceled).

53. (Previously Presented) A compound represented by the formula (3):



(3)

wherein

$R^{15}$ represents a pyridyl group substituted with at least one group represented by the formula $-Q^{201}-Q^{202}-Q^{203}-Q^{204}-Q^{205}-Q^{206}-Q^{207}$, wherein

$Q^{201}$ represents a single bond, an alkyl group having from 1 to 6 carbon atoms, an alkenyl group having from 2 to 6 carbon atoms or a heterocyclic group;

$Q^{202}$ represents a single bond, -O-, -NH-, -CH=-N-, -C(alkyl)=N-, -N(alkyl)- or -S-;

$Q^{203}$ represents a single bond, -CO-, -CS-, -SO-, $-SO_2-$ or -CONH-;

$Q^{204}$ represents a single bond, an alkyl group from 1 to 6 carbon atoms, an alkenyl group having from 2 to 6 carbon atoms, a cycloalkyl group, a cycloalkenyl group, an aromatic hydrocarbon group or a heterocyclic group;

$Q^{205}$ represents a single bond, -NH- or -N(alkyl)-;

$Q^{206}$ represents a single bond, -O-, -CO-, -CS-, $-SO_2-$, -SO- or -S-; and

$Q^{207}$ represents a hydrogen atom, a halogen atom, a hydroxy group, an oxo group, a $C_{1-6}$ alkyl group, a $C_{2-6}$ alkenyl group, a $C_{3-8}$ cycloalkyl group, a $C_{1-6}$ alkoxy group, a $C_{2-6}$ alkenyloxy group, an azide group, a cyano group, an amino group, a $C_{1-6}$ alkylamino group, a di($C_{1-6}$ alkyl)amino group, a $C_{2-6}$ alkanoylamino group, a di($C_{2-6}$ alkanoy)amino group, a

carboxyamino group, a $C_{1-6}$ alkoxycarbonylamino group, a di($C_{1-6}$ alkoxy)carbonylamino group, a heterocyclic group, an aromatic hydrocarbon group, a cycloalkenyl group, a heterocyclic oxy group, an aromatic hydrocarbon-oxy group,

wherein, the alkyl group having from 1 to 6 carbon atoms, alkenyl group having from 2 to 6 carbon atoms, cycloalkyl group, cycloalkenyl group, heterocyclic group, heterocyclic-oxy group, aromatic hydrocarbon group or aromatic hydrocarbon-oxy group may be substituted with 1 to 3 substituents selected from halogen atoms, $C_{1-6}$ alkyl groups, $C_{1-6}$ alkoxy groups, $C_{2-6}$ alkenyl groups, carboxyamino $C_{1-6}$ alkyl groups, $C_{1-6}$ alkoxycarbonylamino $C_{1-6}$ alkyl groups, formyl group, $C_{2-6}$ alkanoyl groups, oxo group, nitro group, cyano group, azide group, amidino group, $C_{2-6}$ alkenyloxy groups, hydroxy group, carboxyl group, $C_{7-16}$ aralkyl groups, thioxo group, $C_{2-7}$ alkanoyl groups, $C_{2-7}$ thioalkanoyl groups, thioformyl group, amino group, $C_{1-6}$ alkylamino groups, di($C_{1-6}$ alkyl)amino groups, $C_{1-6}$ alkoxycarbonyl groups, carbamoyl group, $C_{1-6}$ alkylcarbamoyl groups, di($C_{1-6}$ alkyl)carbamoyl groups, thiocarbamoyl group, $C_{1-6}$ alkylthiocarbamoyl groups, di($C_{1-6}$ alkyl)thiocarbamoyl groups, $C_{1-6}$ alkoxycarbamoylamino groups, $C_{1-6}$ alkoxycarbamoyl($C_{1-6}$ alkyl)amino groups, $C_{2-7}$ alkanoylamino groups, $C_{2-7}$ alkanoyl ($C_{1-6}$ alkyl)amino groups, thio $C_{2-7}$ alkanoylamino groups, thio $C_{2-7}$ alkanoyl ($C_{1-6}$ alkyl)amino groups, formylamino group, formyl($C_{1-6}$ alkyl)amino groups, thioformylamino group, thioformyl($C_{1-6}$ alkyl)amino groups, $C_{2-7}$ alkanoyloxy groups, formyloxy group, $C_{1-6}$ alkoxycarbonyloxy groups, carbamoyloxy group, $C_{1-6}$ alkylcarbamoyloxy groups, di($C_{1-6}$ alkyl)carbamoyloxy groups, aminocarbonylamino group, ($C_{1-6}$ alkyl)aminocarbonylamino groups, di($C_{1-6}$ alkyl)aminocarbonylamino groups, aminocarbonyl($C_{1-6}$ alkyl)amino groups, ($C_{1-6}$ alkyl)aminocarbonyl($C_{1-6}$ alkyl)amino groups, di($C_{1-6}$ alkyl)aminocarbonyl($C_{1-6}$ alkyl)amino groups, mercapto group, $C_{1-6}$ alkylthio groups, $C_{1-6}$ alkylsulfinyl groups, $C_{1-6}$ alkylsulfonyl groups, aminosulfonyl group, $C_{1-6}$ alkylaminosulfonyl groups, di($C_{1-6}$ alkyl)aminosulfonyl

groups, $C_{1-6}$ alkylsulfonylamino groups, $C_{1-6}$ alkylsulfonyl($C_{1-6}$ alkyl)amino groups, aminosulfonylamino group, $C_{1-6}$ alkylaminosulfonylamino groups, di($C_{1-6}$ alkyl)aminosulfonylamino groups, aminosulfonyl($C_{1-6}$ alkyl)amino groups, $C_{1-6}$ alkylaminosulfonyl($C_{1-6}$ alkyl)amino groups, and di($C_{1-6}$ alkyl)aminosulfonyl($C_{1-6}$ alkyl)amino groups,

wherein said heterocyclic group is selected from the group consisting of piperazine, morpholine, piperidine, thiophene and 1,3-dioxilane;

$R^{16}$ represents an unsubstituted phenyl group or a phenyl group substituted with at least one substituent represented by the formula $-Q^{201}-Q^{202}-Q^{203}-Q^{204}-Q^{205}-Q^{206}-Q^{207}$, wherein

$Q^{201}$ represents a single bond, an alkyl group having from 1 to 6 carbon atoms or an alkenyl group having from 2 to 6 carbon atoms,

$Q^{202}$ represents a single bond, -O-, -NH-, -CH=-N-, -C(alkyl)=N-, -N(alkyl)- or -S-;

$Q^{203}$ represents a single bond, -CO-, -CS-, -SO-, $-SO_2-$ or -CONH-;

$Q^{204}$ represents a single bond, an alkyl group from 1 to 6 carbon atoms, an alkenyl group having from 2 to 6 carbon atoms, a cycloalkyl group, a cycloalkenyl group or an aromatic hydrocarbon group;

$Q^{205}$ represents a single bond, -NH- or -N(alkyl)-;

$Q^{206}$ represents a single bond, -O-, -CO-, -CS-, $-SO_2-$, -SO- or -S-; and

$Q^{207}$ represents a hydrogen atom, a halogen atom, a hydroxy group, an oxo group, a $C_{1-6}$ alkyl group, a $C_{2-6}$ alkenyl group, a $C_{3-8}$ cycloalkyl group, a $C_{1-6}$ alkoxy group, a $C_{2-6}$ alkenyloxy group, an azide group, a cyano group, an amino group, a $C_{1-6}$ alkylamino group, a di($C_{1-6}$ alkyl)amino group, a $C_{2-6}$ alkanoylamino group, a di($C_{2-6}$ alkanoy)amino group, a carboxyamino group, a $C_{1-6}$ alkoxycarbonylamino group, a di($C_{1-6}$ alkoxy)carbonylamino group, an aromatic hydrocarbon group, a cycloalkenyl group, an aromatic hydrocarbon-oxy group,

wherein, the alkyl group having from 1 to 6 carbon atoms, alkenyl group having from 2 to 6 carbon atoms, cycloalkyl group, cycloalkenyl group, aromatic hydrocarbon group or aromatic hydrocarbon-oxy group may be substituted with 1 to 3 substituents selected from the group consisting of halogen atoms, $C_{1-6}$ alkyl groups, $C_{1-6}$ alkoxy groups, $C_{2-6}$ alkenyl groups, carboxyamino $C_{1-6}$ alkyl groups, $C_{1-6}$ alkoxycarbonylamino $C_{1-6}$ alkyl groups, formyl group, $C_{2-6}$ alkanoyl groups, oxo group, nitro group, cyano group, azide group, amidino group, $C_{2-6}$ alkenyloxy groups, hydroxy group, carboxyl group, $C_{7-16}$ aralkyl groups, thioxo group, $C_{2-7}$ alkanoyl groups, $C_{2-7}$ thioalkanoyl groups, thioformyl group, amino group, $C_{1-6}$ alkylamino groups, di($C_{1-6}$ alkyl)amino groups, $C_{1-6}$ alkoxycarbonyl groups, carbamoyl group, $C_{1-6}$ alkylcarbamoyl groups, di($C_{1-6}$ alkyl)carbamoyl groups, thiocarbamoyl group, $C_{1-6}$ alkylthiocarbamoyl groups, di($C_{1-6}$ alkyl)thiocarbamoyl groups, $C_{1-6}$ alkoxycarbamoylamino groups, $C_{1-6}$ alkoxycarbamoyl($C_{1-6}$ alkyl)amino groups, $C_{2-7}$ alkanoylamino groups, $C_{2-7}$ alkanoyl ($C_{1-6}$ alkyl)amino groups, thio $C_{2-7}$ alkanoylamino groups, thio $C_{2-7}$ alkanoyl ($C_{1-6}$ alkyl)amino groups, formylamino group, formyl($C_{1-6}$ alkyl)amino groups, thioformylamino group, thioformyl($C_{1-6}$ alkyl)amino groups, $C_{2-7}$ alkanoyloxy groups, formyloxy group, $C_{1-6}$ alkoxycarbonyloxy groups, carbamoyloxy group, $C_{1-6}$ alkylcarbamoyloxy groups, di($C_{1-6}$ alkyl)carbamoyloxy groups, aminocarbonylamino group, ($C_{1-6}$ alkyl)aminocarbonylamino groups, di($C_{1-6}$ alkyl)aminocarbonylamino groups, aminocarbonyl($C_{1-6}$ alkyl)amino groups, ($C_{1-6}$ alkyl)aminocarbonyl($C_{1-6}$ alkyl)amino groups, di($C_{1-6}$ alkyl)aminocarbonyl($C_{1-6}$ alkyl)amino groups, mercapto group, $C_{1-6}$ alkylthio groups, $C_{1-6}$ alkylsulfinyl groups, $C_{1-6}$ alkylsulfonyl groups, aminosulfonyl group, $C_{1-6}$ alkylaminosulfonyl groups, di($C_{1-6}$ alkyl)aminosulfonyl groups, $C_{1-6}$ alkylsulfonylamino groups, $C_{1-6}$ alkylsulfonyl($C_{1-6}$ alkyl)amino groups, aminosulfonylamino group, $C_{1-6}$ alkylaminosulfonylamino groups, di($C_{1-6}$ alkyl)aminosulfonylamino groups, aminosulfonyl($C_{1-6}$ alkyl)amino groups, $C_{1-6}$

alkylaminosulfonyl($C_{1-6}$ alkyl)amino groups, and di($C_{1-6}$ alkyl)aminosulfonyl($C_{1-6}$ alkyl)amino groups;

$R^{17}$ represents an unsubstituted phenyl group or a phenyl group substituted with at least one substituent represented by the formula $-Q^{201}-Q^{202}-Q^{203}-Q^{204}-Q^{205}-Q^{206}-Q^{207}$, wherein

$Q^{201}$ represents a single bond, an alkyl group having from 1 to 6 carbon atoms or an alkenyl group having from 2 to 6 carbon atoms,

$Q^{202}$ represents a single bond, -O-, -NH-, -CH=-N-, -C(alkyl)=N-, -N(alkyl)- or -S-;

$Q^{203}$ represents a single bond, -CO-, -CS-, -SO-, $-SO_2-$ or -CONH-;

$Q^{204}$ represents a single bond, an alkyl group from 1 to 6 carbon atoms, an alkenyl group having from 2 to 6 carbon atoms, a cycloalkyl group, a cycloalkenyl group or an aromatic hydrocarbon group;

$Q^{205}$ represents a single bond, -NH- or -N(alkyl)-;

$Q^{206}$ represents a single bond, -O-, -CO-, -CS-, $-SO_2-$, -SO- or -S-; and

$Q^{207}$ represents a hydrogen atom, a halogen atom, a hydroxy group, an oxo group, a $C_{1-6}$ alkyl group, a $C_{2-6}$ alkenyl group, a $C_{3-8}$ cycloalkyl group, a $C_{1-6}$ alkoxy group, a $C_{2-6}$ alkenyloxy group, an azide group, a cyano group, an amino group, a $C_{1-6}$ alkylamino group, a di($C_{1-6}$ alkyl)amino group, a $C_{2-6}$ alkanoylamino group, a di($C_{2-6}$ alkanoy)amino group, a carboxyamino group, a $C_{1-6}$ alkoxycarbonylamino group, a di($C_{1-6}$ alkoxy)carbonylamino group, an aromatic hydrocarbon group, a cycloalkenyl group, an aromatic hydrocarbon-oxy group,

wherein, the alkyl group having from 1 to 6 carbon atoms, alkenyl group having from 2 to 6 carbon atoms, cycloalkyl group, cycloalkenyl group, aromatic hydrocarbon group or aromatic hydrocarbon-oxy group may be substituted with 1 to 3 substituents selected from the group consisting of halogen atoms, $C_{1-6}$ alkyl groups, $C_{1-6}$ alkoxy groups, $C_{2-6}$ alkenyl groups, carboxyamino $C_{1-6}$ alkyl groups, $C_{1-6}$ alkoxycarbonylamino $C_{1-6}$ alkyl groups, formyl

group, $C_{2-6}$ alkanoyl groups, oxo group, nitro group, cyano group, azide group, amidino group, $C_{2-6}$ alkenyloxy groups, hydroxy group, carboxyl group, $C_{7-16}$ aralkyl groups, thioxo group, $C_{2-7}$ alkanoyl groups, $C_{2-7}$ thioalkanoyl groups, thioformyl group, amino group, $C_{1-6}$ alkylamino groups, di($C_{1-6}$ alkyl)amino groups, $C_{1-6}$ alkoxycarbonyl groups, carbamoyl group, $C_{1-6}$ alkylcarbamoyl groups, di($C_{1-6}$ alkyl)carbamoyl groups, thiocarbamoyl group, $C_{1-6}$ alkylthiocarbamoyl groups, di($C_{1-6}$ alkyl)thiocarbamoyl groups, $C_{1-6}$ alkoxycarbamoylamino groups, $C_{1-6}$ alkoxycarbamoyl($C_{1-6}$ alkyl)amino groups, $C_{2-7}$ alkanoylamino groups, $C_{2-7}$ alkanoyl ($C_{1-6}$ alkyl)amino groups, thio $C_{2-7}$ alkanoylamino groups, thio $C_{2-7}$ alkanoyl ($C_{1-6}$ alkyl)amino groups, formylamino group, formyl($C_{1-6}$ alkyl)amino groups, thioformylamino group, thioformyl($C_{1-6}$ alkyl)amino groups, $C_{2-7}$ alkanoyloxy groups, formyloxy group, $C_{1-6}$ alkoxycarbonyloxy groups, carbamoyloxy group, $C_{1-6}$ alkylcarbamoyloxy groups, di($C_{1-6}$ alkyl)carbamoyloxy groups, aminocarbonylamino group, ($C_{1-6}$ alkyl)aminocarbonylamino groups, di($C_{1-6}$ alkyl)aminocarbonylamino groups, aminocarbonyl($C_{1-6}$ alkyl)amino groups, ($C_{1-6}$ alkyl)aminocarbonyl($C_{1-6}$ alkyl)amino groups, di($C_{1-6}$ alkyl)aminocarbonyl($C_{1-6}$ alkyl)amino groups, mercapto group, $C_{1-6}$ alkylthio groups, $C_{1-6}$ alkylsulfinyl groups, $C_{1-6}$ alkylsulfonyl groups, aminosulfonyl group, $C_{1-6}$ alkylaminosulfonyl groups, di($C_{1-6}$ alkyl)aminosulfonyl groups, $C_{1-6}$ alkylsulfonylamino groups, $C_{1-6}$ alkylsulfonyl($C_{1-6}$ alkyl)amino groups, aminosulfonylamino group, $C_{1-6}$ alkylaminosulfonylamino groups, di($C_{1-6}$ alkyl)aminosulfonylamino groups, aminosulfonyl($C_{1-6}$ alkyl)amino groups, $C_{1-6}$ alkylaminosulfonyl($C_{1-6}$ alkyl)amino groups, and di($C_{1-6}$ alkyl)aminosulfonyl($C_{1-6}$ alkyl)amino groups;

$R^{18}$ represents a hydrogen atom or a $C_{1-6}$ alkyl group; and

X represents -S-, -SO- or -$SO_2$-;

or an N-oxide or S-oxide of thereof; a salt thereof; or a solvate thereof.

54. (Previously Presented) The compound according to Claim 53, wherein $R^{18}$ represents a hydrogen atom.

55. (Previously Presented) The compound according to Claim 53, wherein X represents $-SO_2-$.

56. (Previously Presented) The compound according to Claim 53, wherein $Q^{201}$, $Q^{202}$, $Q^{203}$, $Q^{204}$, $Q^{205}$ and $Q^{206}$ in the definition of $R^{15}$ each represent a single bond.

57. (Currently Amended) The compound according to Claim 53, wherein ~~wherein~~ $Q^{201}$, $Q^{202}$, $Q^{205}$ and $Q^{206}$ in the definition of $R^{15}$ each represent a single bond.

58. (Previously Presented) The compound according to Claim 53, wherein $Q^{203}$ in definition of $R^{15}$ represents -CONH-.

59. (Previously Presented) The compound according to Claim 53, wherein $Q^{201}$, $Q^{202}$, $Q^{203}$, $Q^{204}$, $Q^{205}$ and $Q^{206}$ in the definition of $R^{16}$ each represent a single bond.

60. (Previously Presented) The compound according to Claim 53, wherein $Q^{201}$, $Q^{202}$, $Q^{203}$, $Q^{204}$, $Q^{205}$ and $Q^{206}$ in the definition of $R^{17}$ each represent a single bond.

61. (Previously Presented) The compound of Claim 53, wherein $R^{16}$ represents an unsubstituted phenyl group;

or an N-oxide or S-oxide of thereof; a salt thereof; or a solvate thereof.

62. (Previously Presented) The compound of Claim 53, wherein $R^{16}$ represents said substituted phenyl group;

or an N-oxide or S-oxide of thereof; a salt thereof; or a solvate thereof.

63. (Previously Presented) The compound of Claim 53, wherein $R^{17}$ represents an unsubstituted phenyl group;

or an N-oxide or S-oxide of thereof; a salt thereof; or a solvate thereof.

64. (Previously Presented) The compound of Claim 53, wherein $R^{17}$ represents said substituted phenyl group;

or an N-oxide or S-oxide of thereof; a salt thereof; or a solvate thereof.

65. (Previously Presented) The compound of Claim 53, wherein $R^{18}$ represents a $C_{1-6}$ alkyl group;

or an N-oxide or S-oxide of thereof; a salt thereof; or a solvate thereof.

66. (Previously Presented) The compound of Claim 53, wherein X represents -S-; or an N-oxide or S-oxide of thereof; a salt thereof; or a solvate thereof.

67. (Previously Presented) The compound of Claim 53, wherein X represents -SO-; or an N-oxide or S-oxide of thereof; a salt thereof; or a solvate thereof.

68. (Previously Presented) A method for treating Alzheimer's disease, comprising administering an effective amount of the compound of Claim 53 to a subject in need thereof.

69. (Previously Presented) A pharmaceutical composition, comprising the compound of Claim 53, or N-oxide or S-oxide of the compound, salt thereof, or solvate thereof and a pharmaceutically acceptable carrier.

70. (Previously Presented) A method of preparing a medicament, comprising adding the compound of Claim 53, or an N-oxide or S-oxide of thereof; a salt thereof; or a solvate thereof, to a pharmaceutically acceptable carrier.